Rec April 9th
Ans — 10 & 12

Mellichamp

M–O

26

37

Bluffton
So. Ca.
5. ap. 75.

To
Dr. G. Engelmann –

My dear Dr. –

I received your last letter if I mistake not before Christmas, – and I have not answered it before because I had nothing to say, & nothing of interest to send you; — and besides, I thought a good respite from me w'd do you good.

A few days ago however I was particularly reminded of you by a note wh. I recd. from Sav. Ga.

from Prof Gray who
wrote that he had heard
from you. Dr G. kept
me informed of his pro-
-gress Southward, and I
was not without hope
that he might be tempted
to stop a while even
here in Timbuctoo & so
I kept a letter awaiting
him (as he desired me
to do) in Savannah.

A few days ago however
he wrote me from S—
regretting that he could not
come – as Mrs G— had
been ill on the journey –
& in her present health
was hardly equal to
the long journey from the
R.R. here, & so by this
time I suppose he

he has gone on further South. From all I have heard, & indeed from what I myself know — he must be a most genial & large-hearted man & it was a great disappointment not to have met him. But I indulge the hope that he will take us on his way back. ——

I have just read over your last letter & referring to your mountain trip — you say of companion that you "should now see my "your" Southern

37

"Sand hills & swamps"!
Would you come I should
be too glad my dear Sir,
to show you all that
our region has to show
— tho' most people think
it a poor enô place.
I can promise you salt
water, salt mud, sandy
— desolate & overgrown old
fields — some pine-land-
"galls" & swamps. About
the beach & sand hills it is
hard work getting there but
we might even compass that.
But above all I would be
delighted to have you in
my house.

Very truly & respectfully
Yrs
J. H. Mellichamp

I am compelled to write in haste!

Met Dirca palustris for first time in my life few days ago!!

38

Rec^d June 8th 1875
Ans
& Dec 5

Yucca recurvifolia
has not ~~bloomed~~
Cactus Eclectus

Bluffton
S. C.
3 June 75

170

Dr G. Engelmann

My Dear Sir:

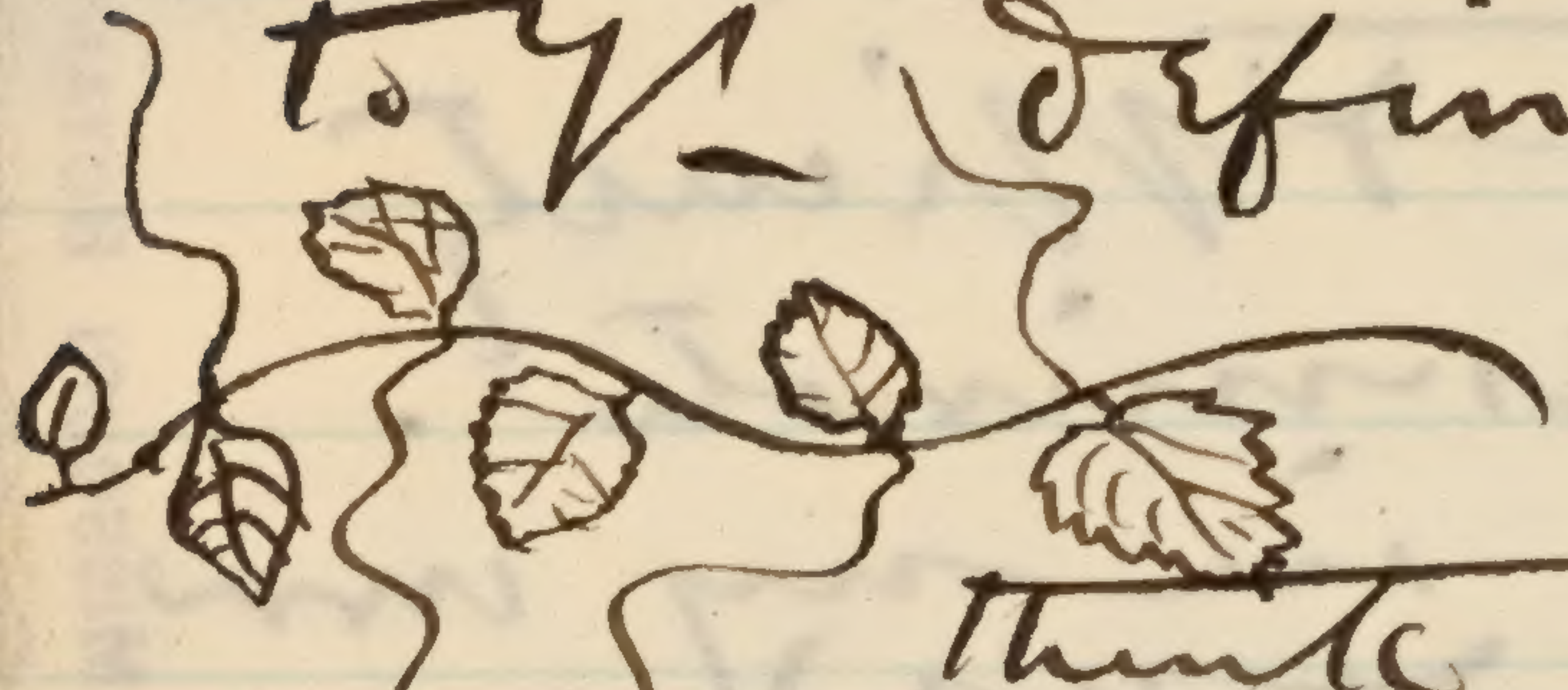
Your last of 24 May I recd yesterday, & yr former letter of the 6th. I delayed answering because I wished to be accurate in my replies to yr queries. From various causes I have not been able to examine & compare the fls of the cultivated & wild grapes, — one reason being that there are none in cultivation near me. However I think there is little or no doubt that Vulpina blooms much later than the rest. Shortly after reading yr first I

I send first the seeds of Yucca Whipplei in my letter!

Thanks for Colorado paper as well as for that on grapes wh. gave me great pleasure.

Examined vines of the Common aestivalis & found some in bloom. Upon looking at several of Vulpina they were only *in bud* & indeed they are *only now blooming*. It would seem that there is a difference of two or three weeks between them. This morning I found young grapes of this size ○ on Aestivalis, but *none* on Vulpina as they seem to have just burst. I have in my yard one vine each of Scuppernong, Flowers, Thomas, & Peter wh. I dug up & replanted last fall. They are all of course young vines — and all as you know Var. of Vulpina. These also keep time with the others of Vulp. examined in the woods, & are *just* blooming. I have ex-amined ~~by~~ ~~[illegible]~~ several vines of *Vulpina* — wild, — & so.

far I have found none 38a
with continuous tendrils —
all intermittent according
to yr definition — viz —



I incline to
think therefore that
the Frenchman is mistaken,
— but then it takes so
many swallows to make
a summer — and I have
only looked at some 8 – 10
vines. Pedee. Scupp. Flos &
Thos in my garden are
all as above intermittent.
A week or 10 days ago
I saw a Cordifolia wh
was just commencing to bloom;
— I thought it was later
than Aestivalis, — but to
day I observed a vine
of the same with good
sized grapes as large as
those referred to — O. This
is all therefore I have
to say — that certainly
Vulpina seems to be the

Catesb. bloomer of all, and has intermittent tendrils. ——

As for Q. Sinuata (?) there seems to be no difficulty in getting it to germinate. The tree is now in my own lot (purchased last yr.) so that I can watch it. I planted a row of the acorns & I suppose some 8-10 germinated, and are now growing finely. (The trouble with acorns of all species is the larvae within them - I suppose all I sent you contained them. I shall send you one of these young trees & Vulp. tendrils. I have found also under & near the tree what seemed a good many vol-unteers of Sinuata, but there are other oaks touching, both Falcata & Catesb. I never saw petioled cotyledons on any oak here. Thanks to Dr. S. for telling me the news about that new & curious pine — I am "astonied" — & thought Elliott's - wd. prove

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cm
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MISSOURI BOTANICAL GARDEN

II Recd June 8th 38b

to be the last of the Mohicans! Never saw anything approaching it about here. I am not the less astounded at what Dr. Chapman says as to pines — Why I thought if there was anything fixed & unvarying in the bot. world it was the ~~[illegible]~~ clean separation of the species of Pine. Most certainly it is so here. Now although no botanist I do really profess to have paid much attention to them for the past few years, & I can safely say that I never saw yet a hybrid. I have also looked & looked for them wherever I have been — wondering why they should not occasionally appear — the pollen being wafted in such abundance but never yet have I seen one. As for P. Elliottii it is the most distinct of all the pines, and as it blooms so early there is no danger of either its impregnating any other pine, or in turn being

but see this

impregnated itself. I did indeed
once see a ~~[illegible]~~ spec. of Mitis
on the road, wh. from its longish
leaves did stagger me for a little
while — but I soon made it out
without any trouble. I have also
seen some spec. of Australis
with very long leaves & the swamp
P. Taeda, of the primeval forest
has (as I've told you) smoother &
~~[illegible]~~ & more reddish bark, & better
wood than the second crop of
"old Field Pines" — or "Loblolly"
as Taeda is called, — but that
is all. The way faring man
tho' a fool cannot possibly
mistake one pine for another
in this part of the world, no matter
what may be the case in Fla
or Ga. No! I am "Thunder-
struck" at the statement.
Well, I must stop now,
as I am feeling very badly
& I have just swallowed
a pill of Podophyllin & Hyos.
tho' it is contrary to my rule to
take physic myself — but I
venture, as "I have good deal of
bile" as a patient once said to
me — so [illegible] with thanks
I bid you good nite! Very truly
etc.

Rec Oct. 29 1875
an — 30

Bkln. Sunday nt 24 Oc 75

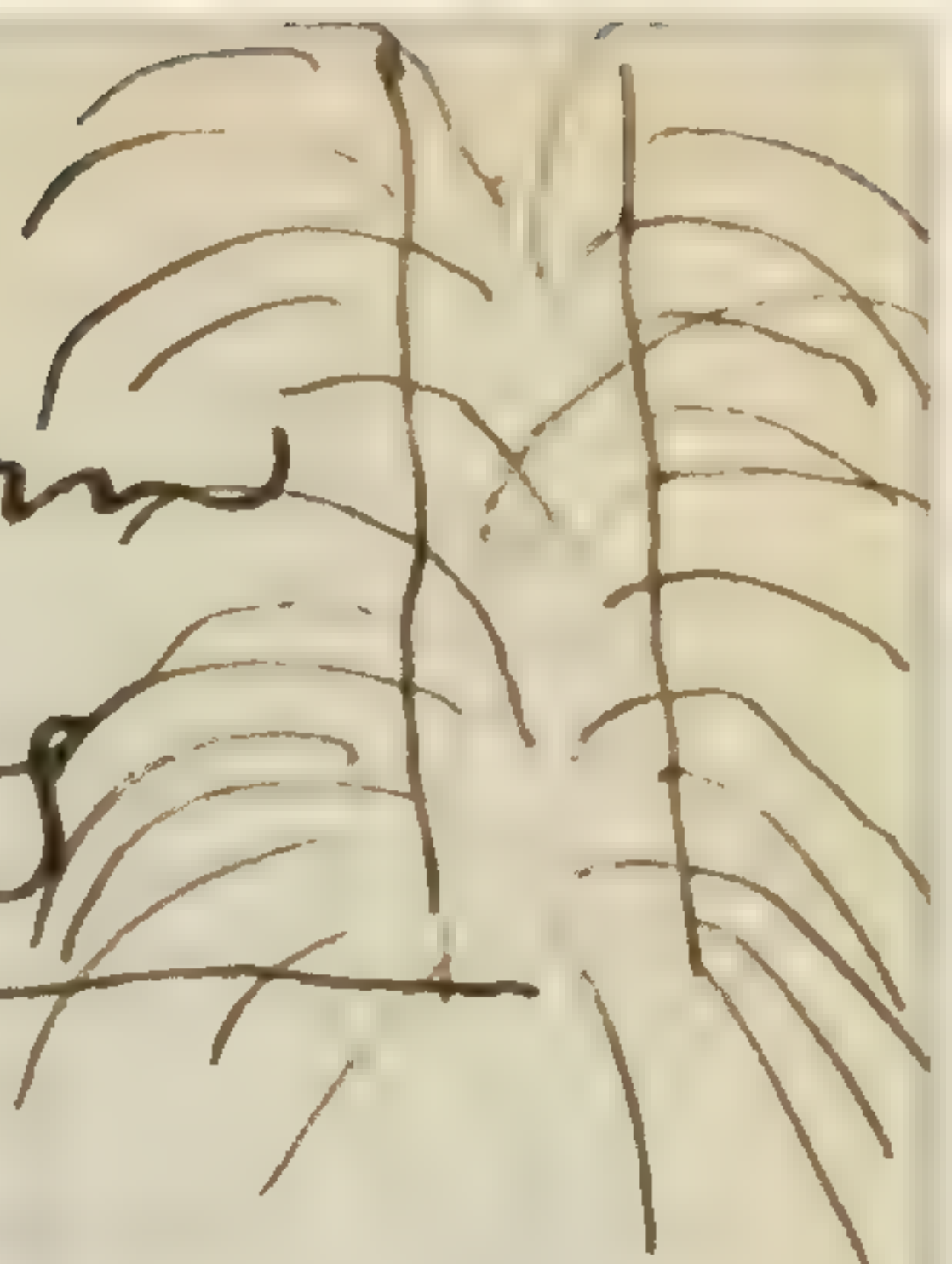
39

My D^r Doctor -

This afternoon having leisure I devoted myself to fixing up the spec's for you. I fear I may bother & confuse you by sending too many with needless variations but then again I thought it might be worth while. The letters in my pocket cut from newspaper gave out, so a few are marked by leaves — hope you wont find any difficulty. Thanks for Yucca seed wh I shall plant & take care of.

Those you inquire after are doing very well — those from seed of Gloriosa in Wash are getting on & although the leaves are very flaccid & long like filamentosa, yet I think they will end & show for Gloriosa. Havn't found any Gloriosa fruit yet — I almost despair & yet I find young plants wh must have come from seed. Sent you spec^n of P. aust last wk wh must have reached you in the nick of time for what you wanted. Please excuse this — I shall write again if I have anything of int. to tell you. Do not hesitate to send for anything I can ~~ge~~ get here for you — It is a real pleasure for me to assist a true worker like yrself & one so courteous & friendly to Yours very truly

And so Good Nt.!



M. P. australis, – leaves from about middle stem of a sapling 15 feet high.

N. P. australis, – leaves from same tree higher up, near the top.

R. P. australis, leaves from the base of a young sapling 10–15 ft high wh has been cut down last year. There are now 4 shoots from the trunk – leaves unusually long.

never knew before that it sprang up in this way in any instance

O. P. australis, leaves from an old tree just between & above the ~~now almost~~ mature cones.

S. P. australis, leaves, some of them yellow & dropping from middle ~~xx~~ of a young sapling about 5 feet high.

P. australis, leaves from the top-most branch of a~~s~~ good sized tree wh I found on road – just cut. ~~No letter – no mark of any kind accompanying it.~~

Slip of Palmetto leaf within = Sabal. Serrulata.

Rec^d. Oct 29 1875

E. P. Elliottii. leaves from stem of sapling 7 – 8 feet high, with
☞ small plant on the outside of pkge – about 18 inches high.

W. P. Elliottii – leaves from diff^t. trees.

P. Elliottii in one pkge. The leaves with Smilax leaf are from below & around the now open cones of an Old Tree. Those with a hickory leaf from above the cones of same tree.

T. P. Mitis: sapling 10 – 15 f^t. with young cone of this spring.

U. P. Taeda. sapling as above – look out sharp for Linnate spec^n!

P. Glabra. sapling as above but with cone of spring of '74. Bark enclosed.

C. P. Serotina, sapling as above. this chance seedling growing in an old field.

P. Serotina, a few leaves from an old tree. Kalmia hirsuta in seed enclosed with it.

☞ No! not "too late for acorns & hickory nuts" – with any? I w^d say that P. Ell. might be esteemed a link be-tween australis & Serotina !!

so this way in all instances!

Recd Nov 15
ans dec 3d

40

Charleston.
So. Ca.
11. nov 75.

[illegible]

My Dear Sir,

They have just sent me from home the kind letter (so enjoyable!) wh you were so good as to write me, and I just drop one word as to the Taeda & Mitis tubings! Yes! Surely there was a mis-take! — I suppose I put the wrong letter in the woods.

And yet as each species was rolled up

[illegible]

I stuffed my nostrils (terrible) with the pure Sulphate & cried out Eureka — I am a cured man — so re-markable was my exemption for a time! but alas the attacks returned. Nevertheless I certainly de-rived great benefit from Quinine & Iron internally & from injections also — but no cure!

made a note of it with the accompanying letter.

I could have sworn that error was impossible, — but these things are possible in the best regulated families"

I have a queerish brother — but the best man in the world — now sitting by me — who says he always distrusts the man who is "perfectly certain" of a thing, & I dare ~~say~~ say he is right.

If you will take the trouble to run over the leaves of the old field loblolly (P. Tæda) you will find one single instance of two leaves in a sheath

And now here's the curious part of it — Up to the war I was exposed to miasma far more than now by night & days, but I never knew what such an attack meant. In '62 at a Hospital at Coosawhatchee I met with the Poison Rhus in a swamp while I

40a

that is what I meant by "cut out sharp for binate spec.n"! I have some very good spec.s of all the pines - subjected to heavy pressure - simply showing the young cones, which expand in the spring if they may be of any value to you I can send them. I think that the fresh binate leaves of P. Elliottii are flat, - but will answer you with certainty when I get back home as well as other portions of yr letter

I was not familiar with lower down on the coast & stripping the bark & examining the berries I was terribly poisoned. The 2 succeeding

"falls" # the poison showed itself by oedema &c of eyelids, face) & genitals &c with intense itching — Since then Every fall here comes

4081

I am here for health's sake — seeing what change will do for me. I suffer every fall with the most atrocious attacks of autumnal or more properly malarial catarrh — wh at the north in hay season wd be termed Hay asthma &c. The incessant sneezing — the lachrymation the soreness & tickling of the throat — the indescribable tickling in the axilly glands — accompanied with slight cough & expectoration, with no fever, but occasional "sweating" — made me from 1 Sep to middle of Oc. at times miserable. It is curious to see how dependent the attacks are upon exposure to the "country air" — or some paludal or miasmatic influence. Two yrs ago I went to Chasn in Oc. suffering incessantly — the city atmosphere as I supposed cured me. — remaining 10 days I crossed the Ashley in a steamboat to take the R.R. home & just as I approached the woods of St Andrew's Parish on the other side of river the attack returned with redoubled violence. In going through the pine-land region it seemed to me that I suffered but little, but the rice region & swamps of Combahee & Ashepoo again placed me hors de combat. Curious isnt it! Seeing the opinion of two German Drs as to same conditions in Europe, as to malarial vibrios being the cause, wh vib were rampant in the nasal flow, expectoration &c and in wh Quinine had been successfully injected I

(B I am going over among my [illegible] home folk this afternoon on Jas Isld, & if I strike Y. gloriosa — look out!

without fail my malarial catarrh!! try it. J.H.M.

P.S. — how
See now ~~what~~ elo-
-quent & garrulous
a fellow becomes
when he talks of
his own ailments!
— that little — that
dear little Ego!!

But really I wrote
thus because you were
a disciple of Galen
like myself and my
Case ~~it~~ seems peculiar.
I have met with
but one such case
in practice — &
that a negro in
Hilton Head. Such
as I believe not

MISSOURI - GEORGE ENGELMANN PAPERS

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uncommon Northward.
— Not here —. I wonder
if the Rhus poisoning
had anything to do with
it ?! Can't you
cure me ? Of course
I am well now of it but
it wound up in dysentery
with great prostration, and
lethargy of mind & body.
I am still weakish &
things not apt to interest
me. Your pines first
stirred me up with a
faint emotion before leaving.
I believe I'll write up
my case for my confreres
& publish in Chicago Med
Journal. Please pardon
my tedious long winded
acct of my ailments &
send a cure to ward off
attack next yr if I live

"Mason Lodge" I believe the
name. Here Teufelsdrock Carlyle calls it "the marching song of the Teutonic kindred"!!

that song. The German was from Wolfgang von Göthe

P.S. I fear the tender spec^s. will be all crushed up in our Sulkey mail. Carrier has a way of continuing the pressing by sitting on the mailbag!

Bluffton S. C^a. — 15. Dec. '75

To Dr Engelmann —

Rec. Dec 29"
Ans. — 31

My Dear Dr.

Yes! I do not doubt that a trip southward among pines & live oaks would cure all yr ailments! — "a Sovereign remedy"! Will you not come on at once and stay with me — it would give me a real pleasure! I will only say this my dear Dr., that things are rougher with us since the Enfranchisement but the climate is for the most part deliciously mild & you may call yr life here camping out — a morning,

or "roughing it in the bush"
in comparison with your
city life & its luxuries. When
then will you come? You
must give me warning before
hand, as I live 17 miles
from the R R & I will either
meet you myself at Hardee-
-ville on R.R.* or send a dar-
-key (a very respectable old Bap-
-tist Deacon, whom in imi-
-tation of the Pope I have
carried through the successive
stages of the Diaconate & Bishop-
-ric & lastly Cardinalate — the
last title since McCloskey's
elevation) — a darkey therefore
(& a Cardinal!) with his mule
& Jersey wagon will be ready
for you if I cannot meet
you. I am sure the "ter-
-binthinate exhalations" of our

* Sav. & Chstn R.R.

barren pine land country will once & forever cure all bronchial trouble. Lo my Brethren, won't you come & gladden my wigwam with yr presence! ________

Thanks for what you say about my "Hay fever" wh is absolutely you know – or almost – unknown at the South. I did try large doses of Quinine – i.e 10 grs – perhaps 15 occasionally I think, but usually took only a tonic Syrup. of Phos. Iron, Quin & Stryct. (Aitken's syrup). Perhaps if I were to commence in Aug & Quininize myself I might escape. I thought of the arsenic but I hate to trouble my digestion even with Fowler's Sol – still I cannot suffer as I have done without doing something more. The Chloral I will try if I like – but I don't think so much of it – altho' it does benefit my wife a little in some of her terrific attacks of Neuralgia.

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41 The Rhus poisoning is doubtless a mere coincidence but it is curious that altho' far more exposed in old days to malaria than now I then never suffered. But of course a man at one time of his life may be more susceptible to certain influences than at another. A Dr. who lives not far from me — a tinkerer at politics & physic both, & whose practice long ago was chiefly in the rice plantations of Sa. River — (tho' residing here) told me a few days ago that he has been suffering with the same malady for 20 years. Symptoms pretty much like mine or rather chiefly the incessant sneezing wh. is the only symptom wh. causes him any annoyance, other-wise his appetite & digestion are enormously increased & he gets fat & feels "as hearty as a buck" at that period! — Curious! He is not however a truly reliable man, so his statements must be recd. cum gr. sal. Yes! I recd. in Sept. the Yucca seed — not planted yet —

41

A man by the name of
A. H. Curtiss* an agent
of the Dep't of Agriculture at
Wash. has been writing me
to help him with some trees
to send on to Cent.l & among
them P. Ell. I had done
the best I could for him, he
says he found Q. lyrata
abundantly at a certain station
on Central RR in Ga. & promises
to send you & myself (as I suspect)
spec. I wrote him to send four
& one leaf for myself — so doubtless
you will get it soon. He's now
in Jacksonville Fla. I send three
prepared pine spec. — but I fear
you will think some of them im-
perfect & poor.

I. P. Ell. II. glabra. III. mitis
IV Taeda V Serotina (binate again
in this? upper portion) 2 others
of early cones of P. Ell & australis
unmarked. The others are
all from young saplings.

Hoping soon to hear & that I
may see you in the field
I am Very truly yours
H. W. Ravenel

* It was rather singular, that when in Chs'tn walking up to Magnolia Cemetery some 3-4 miles out of the city, I came across a cut tree of Stillingia sebif. — which was one of these inquiries about it by me I informed him when to get it. I thought of him at the time & wondered if he had cut it. It seems he had gone to Chs'tn & did cut the two 9" Shoots in my walk!

I've looked at the binate abor-
-tion & see it! — Thanks for
yr trouble. Yes, I should
be delighted to get the
photograph of that agave.
As for P. Serotina it
would take a long time
satisfactorily to unravel
all those mysteries — but
I think I must try.
After the terrible drought
fire swept the whole
country for miles and
miles & so, I conclude, all the
ones of that species
are now gone from fire. I long
ago got Mr R to send
me his P. S from
Aiken. Alas! I could
see no difference from
ours here!

I never got the pine seeds fall before last & the other things wh were desired by the present monograph because there was little or no "mast" that year & they cld not be obtained in sufficient quantity without immense trouble. This yr that of *P. aust* was immense but I did not think of asking you whether seed were still desired

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4/2

By their liberal propagations; I have 3
collected some capsules of P. pubens
after gaping & discharging seed (you feared
those sent were not mature enough — how did
they do? & the pine seed? & hystrix?
and if they or any gardener desire
them I can send them — or if
you know of such persons desiring the
young 12-18 — perhaps 2-3 feet of P. pub
I think I might go in the swamp
& get them if they be of sufficient ~~importance~~ # value to pay for trouble.

P.S. Havint the slightest idea that you are right as to that yucca being *filamentosa*! No! *gloriosa*! Isn't that refreshingly *cool*? Subject it to the microscope.

Bluffton S. Ca.

42

6. Jan 1876.

To Dr. Engelmann.

Rec^d Jan 10th
An — 11

My dear Doctor,

I am very sorry to hear about the accident wh. has befallen you, & especially so as possibly you might have come South had it not been for that mishap! I trust you are now much better, & that when quite restored (I mean yr powers of locomotion) you will turn it over in yr mind again & still come. "Let the fancy grow"!

I shall always be delighted to have you with us. ——

In bag will find spec.^n of P. Tæda (4 in a sheath) from sapling 6 - 8 feet high. These as you see from the *trunk*. Very truly

J. H.

I am sorry the Report (is that Dear Paul Dr Richter's place — I had some vague recollection in my mind of associating his name with it!!) — people didn't write in OC, for the "mast" of P. Australis last ~~this~~ yr was more bountiful than ever I knew it before & there may be but very little this year. I had gathered some to oblige Prof Sargent of Cambridge, as he especially desired it & never he said could get good seed. I had a good lot of cones thrashed down just before they opened & so sent him some. I had a remnant in the house which I today send you in a bag, containing the Pinckneya fruit capsules plucked about 1 month ago as I happened to pass the swamps. I have not "shelled" them — thinking

42a

the seed wd be better protected thus. Bag contains P. pub. 2 papers of P. australis unmounted & 1 small of P. Ell. unmounted Not sure the last are good for although I now see a good many cones dropping. Those I previously examined (Thrasher done ~~[illegible]~~ like P. aust) were mostly false. Of course no prime seed can be obtained now — Even the long closed P. serot. are mostly open from fire. I send in same also a few of C. hystrix. I shall try & visit the spot in a day or two — if I can get more will send. I had been this fall from time to time, & I would likely have gotten the seed in suf-ficient quantities of all the kinds desired. I haven't heard from Mr Curtiss — he promised to send me in your [illegible]: He is now "living" (I believe) in Jacksonville Fla — from that place he wrote me & I later

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being then "for good". I have never given as much as 30 – 40 grs of Quin at a dose save in some bad Cases of Congestion when no time was to be lost. ~~[illegible]~~ Usually our common Cases of Bil-remit are very manage-able with less. But next Fall I shall do something that's certain. In neuralgia I have found wonderful efficacy ~~with~~ ~~for~~ Quinine & Morphia (especially periodic malarious forms) but it always does very wide harm – never good in any way or in any dose. Some preps of Brown Séquard (have a [illegible] idea that man is a Scientific Charlatan) of Bell. Aconite Conium, Hyos. & Op – do more good than anything else! I'll talk about it, [illegible] another time – painful topic. Thanks for the slip political you enclosed. Ah! my dear Dr. We've gone thro' fire & water & everything else since reconstruction. I hate to talk or write or think about it. But certainly Chamberlain is doing splendidly & seeming to try his best to fulfill his pledges. He is heartily supported & endorsed by all white men – I mean all decent, white Democrats – Bourbons like myself. Please look over paper I send – Gen Connor's speech has the right ring (Gen – now a great ex Con-fed genl, full of honours – leg shattered twice in the war, then amputated at the hip. Was my classmate at college. A true man) We've been waiting long for the Dawn. Of course only U.S. has prevented the people from upsetting Africadom long-long ago. But we can't yet tell what the end of it all will be. Here we have to keep as still as mice – we could be gobbled up in a night.

If Y. Recurvifolia plants are doing well, — I may get you as you kindly offered others to send one to Chastn for Bluffton SC me too for a lady, but if so I'll tell you.

Dr G Engelmann — 17. Feb '74

Rec Febr 26
Ans May 11 x 17

43

My dear Sir

[illegible] It seems a long time since I've written you! — but I've given you this happy respite because I had nothing of int. to send you & therefore nothing to write about.

But I must thank you at least for yr last of 5 Dec & again for the "Frankfortian Prodromus" "auctore Dr G Engelmann" ! 1832 ! — a good while back & you have never faltered in yr devotion to this yr first love !! — I've been digging at it, but without affectation I must say that I'm so caked in rust that my progress was slow & unsatisfactory. Many thanks for yr kindness in thinking of me. ——

I now answer a few of yr queries! — Yes! The cluster of grapes sent (austere to the taste rather & unthrifty) was Cordifolia — I enclose leaf wh. I believe is

In package of larvæ of yucca sent to Mr Riley I enclosed 3 drupes of Zizyphus Volubilis (Supple Jack) — not 2 seeded..

Quercus

from same vine. — growing on salt water.
yes! the long peduncled acorns were Q. Virens.
I shall endeavour this spring to send you
the oaks when in bloom &c about me.
Q. Phellos loses its foliage early in the
winter so far as I have observed, & so does
Q. Aquatica — unmistakeably so; but not
so that large & beautiful tree Q. Laurifolia
(our "water oak"!). There are many around
me now as I write & in full foliage.
Q. Virens of course retains its leaves
until spring when for a little while it looks
ragged enu'. Q. Cinerea loses its leaves
early & are now naked & desolate. Q
Pumila varies; — in some favoured
spots in the pine land you will find
the leaves now green, but I suppose
2/3 do are at present "dead", — leaves re-
-tained but dried up on the bush.
Q. Nigra deciduous of course. Q. Catesbæi
do. Q. Falcata do. The Hybrid sinuate
oak sent you, do. This if a Hybrid is the
first Hybrid oak I ever saw, — parents
I think as before said Q. aquat. & ~~Q. Fal.~~
& Q. Catesbæi — the leaves of latter are not
much stiffer than the topmost ones of the
Hybrid. Q. Alba decid. of course, as for
Q. Lyrata do I believe — but I never
saw that tree in my life tho' always on
the watch for it — the acorns sent you
were the first seen. The last time I
talked with my Father — he described it
to me & the acorn — told me of the spot
where he had observed it years ago when a
young man — the place, "Parker's Ferry,"

(3) Rec Febr 26 1877

— if you know where Parker's beauty is! — don't you know? — strange! But precious few things escaped his eye I can tell you — with his heart full of love to God & man. Q. Prinus of course deciduous, as also Var Michauxii. And these are all the oaks I know about me — oh I forgot Q. Obtusiloba, decid also. I'm glad you were pleased with Var. Michauxii sent you. I now send with other things spec. of leaves of what I've always taken to be Q. Prinus — growing in a swamp. — only one acorn found — twisted & almost abortive; — others sent (4) of Q. Michxii from same tree as before, — growing by itself on a dam near New River, — possibly that may acct for the difference in softness & length & flexibility of leaf. The Melocactus was killed by severe cold last year — came to nothing — no blooms: Very diff't winter this as you'll see from spec. enclosed of P. Elliottii cones — why these trees where discharging pollen as early as 5 — 10 Feb — and is now turning red-brown tho' still full of pollen & dusting the pools here & there. This is the earliest I've ever known — other Pines lagging at the same interval, P. aust next — it seems. Yucca now again! The seeds were planted of Y. gloriosa wh you sent me & they soon germinated. They differ somewhat, from Y. aloifolia — that soon lifts its cotyledon from the earth the seed adhering to from the tip — in a few days it is erect & thus remains for a longish time — at last a very tiny leaf appearing at its base wh. seems to grow very slowly. Not so with Y. gloriosa. The cotyledon in the first place is not thick & swollen as in Y. al but thinner & smaller — almost always remaining in the earth — the leaf then grows quickly & now the second is getting well advanced. I enclose sketch wh. is accurate enough to show you what I mean if you haven't the same yourself. Of the subter. portion I know nothing as yet not liking to disturb them. I can send you one or two or 3 later if you desire it. I'm glad you received my seeds all safely — it seemed a very small quantity for so liberal a remuneration & yet I really endeavoured to get the best, being the only person to obtain them had to do everything almost myself. I fear you sent too much — but you can charge the Erfurters with "skilled labour" & that you know always demands a great reward. I did not dare with my our miserable gleanings in these denuded fields to send for a book wh. I much needed & desired as a reference &c, ~~but~~ but I did not feel so culpable (to my family) to devote that amount to it, — let botany, beget botany, so I now have Hooker's translation of Le Maout & Decaisne's book with the proceeds of the seeds sent you. It is certainly a splendid work with 5000 illustrations.

X I have 8 or 9 young plants of Y. gloriosa.

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⑤ I think it will help me a good deal. 432A
I send you a little package of seed wh. you've
had before — but I dare say you can
make use of them with vos confreres
& collaborateurs. viz P. Pubens, C—
Flaccida — (good), — Rosa — ? never ex-
fly. Y. aloifol. Q. Michauxii (4). Q. Prinus
? (!) Nyssa ~~aqua~~ Capitata (Ogeechee Lime)
Nyssa Uniflora. (Pumpkin, floated up,
no trees about me) P. australis. Hibiscus
grandiflor ($\frac{2}{3}$ good). Leaves of Q. Prinus?
Possibly I may send along others
of Y. fil. no 1. wh as before stated
I'm determined you shall grow in
St Louis a root of Collinsonia
Punctata — if you haven't it
with you. If not now will
send these along another time.

I've just been reading the
Tribune reports of some of the
last lectures & words of Agassiz
at Penikese Isld, & also his "Evolution
& Permanence of Type" in the Jan.
no of Atlantic Monthly in wh
occur these memorable words "Philosophers & Theologians have yet to learn
that a physical fact is as
Sacred as a moral principle.
Our own nature demands from
us this double allegiance."

I was greatly pained when
news came of the death of
this great & good man — for although

Will send afterwards Canna flacc. "not"!! — now that gardeners are
hybridizing species of this genus — ours might come into play.

of course I could know little or nothing — of that which he taught, yet I had for him only a feeling of reverence & love. Long ago in Charleston I attended his lectures & the impression made upon me then was that of ~~a the~~ a man of great wisdom & great humility, & of one who loved nature so faithfully that he must of necessity ~~be~~ be the most truth-loving as well as the most reverent of men. There was also such an enthusiasm in him that it was contagious, to which ~~were~~ was united great simplicity of manner, courtesy, & gentleness, so that all were drawn to him. He had just inaugurated that great work at Penikese Isl. when he was snatched from us! — Who can estimate the loss to the whole country of such an example of disinterestedness & self-sacrifice, — especially among such a people thirsting only for gold? ———

No Zostera seen in my wanderings — nor any yet from you!

"On a vaster sea his sail,
Drifts beyond our beck & hail!"

I hope I may get something fit to send you after a while, — meantime

I am &c
Yours with thanks

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I enclose Crataegus glandulosa or what I take to be it now blooming but I may have sent it before.

Bluffton, S.C.

31. Mch 76

44

To Dr G. Engelmann —

Recd April 3
Ans — 18

My Dear Sir —

Yours of 23 Mch recd last mail. I wd have been very glad to have sent all the things desired by yr friend in Erfurt, but it is not possible. The following drought has burnt up the seedlings of P. Elliottii, I mean those of the fall of '74 — wh only were desirable, & so they can't be sent. Dion — Muscipula of course not to be had here, & I know no one in Wilmington NC who cld get them — so that too is out of the question.

It is now rather late I think
to send the small plants of
Pinckneya &c – & the swamps also
not being convenient to reach.
I think it wd be unwise to
to get them – Better in the Fall,
for they are now budding out.
I hesitated much about digging
S. Variolaris, for the young leaves
are thrusting out & also in
some instances ~~the flowers~~ the
bud but I found some plants
in a sandy spot rendered
dry by drought & these being
far more backward I thought
I might venture with them,
and so have to day sent a
box of them only, to Messrs
Bingelstedt &Co 27 Wm's St
NY. "for Messrs Haage & Schmidt
Erfurt". Shipped at Hardee-
-ville, Sav & Chstn R.R. I have
notified Messrs B&Co also. The
plants were packed not with
Sphagnum (wh cannot be obtained
near (tis drought!)) but with
Tillandsia – [illegible], wh doubtless
will do as well.

Although these plants are not as large as those growing in more moist land yet they are healthy & more likely to grow. Please ex-plain to Messrs H & S — why such were sent. It is anyhow too late for such things, — they shd have been sent last of Feb or first week in Mch. If any things are desired notice should be given months beforehand. I'm surprised seedlings of P. Ell are wanted, — the seeds I sent ~~[illegible]~~ were $\frac{3}{4}$ths good. Did they not succeed with them? ———

I will do anything on earth to prevent you looking over my past letters & therefore shall soon give you briefly "the points" as to P. Elliottii & also of P. glabra, wh one having once seen wd never dream of confounding with mitis. Perhaps I may do so in this. H S

4416

23d - Thurs.

All the Pines have bloomed this season but P. Australis I have not seen one either with male or female aments - that I remember; and I have watched them carefully! I think the same thing happened in '70 was it or '72 - or earlier. Last year the "mast" from that Pine was most abundant, & so it will be also this fall but next year there will be none, - at least here. Now this was not due to a freeze, or any such cause ~~early~~ early in the winter, for as you know we have had summer in winter. P. Elliottii bloomed from 8th Jan to middle of the month - P. Tæda came out 3 weeks or a month after, & so should P. Australis for they run together. P. Serotina is now in bloom. -

Very Respt & Truly
J. H. M.

We have had winter the last 2 or 3 days - milder today.

J. H—

If at another time S. flava be desired I have a brother who digs in the phosphate region 16 miles - from Charleston who wo [illegible]

442a

P.S. You ask about Carya, — I send you some buds from young trees in the Pine land. Aquatica not here (Elliott? in Lark. swamp) nor Myristicaeformis (you must go to "Goose Creek" for that, & later you can it don't prove a wild goose chase!) but glabra is here two trees only & two or three other varieties or species, for it is sometimes hard to distinguish them. Tomentosa is here ~~[illegible]~~ & also

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4428

Sulcata & alba. I
believe, tho' these are
said to be rare in
the low Country.
Like yrs, Vancouver
pkge these will be
"mere dirt" when
they reach you, -
hope they will be as
satisfactory!! Pkge
contains No 1. *laurifolia* - No III.
pumila & virens.
myrtifolia loose in
the bundle. Pinckneya
seed evidently good - coming
up thick in a box. I
made a *mess* of woodland
earth, & mixed the seeds
abundantly in it on top of
box, & kept well
moistened.

Rec April 24' 1876
Ans May 1

45

20. ap.

Recd. yr. post card. I neglected myself looking after that oak, and it was too late when I remembered it. The Early Spring pushed them out very early — then came a bitter blast that shrivelled up all the young leaves & the flowers. Examined that tree to day and found the leaves looking still twisted, but picked up a few dried fls at the base of the tree which I enclose. Live oaks near a Hickory — believe last is enclosed also. I shall also enclose other specs found under the tree, in Chester Co. Journal wh for variety's sake I

Shartman's case of Concep. is I think worth reading.

send, as it contains a brief report of a case wh. interested me much at the time. I happened to meet the negro the other day &, remembering a few notes I'd made on his case I rushed many into print, — and voila! — the little mouse produced. Did you ever see 4 leaves in a sheath in P. serotina? I enclose one, grew near the enclosed young cone — have seen same thing before. Forgot to say I sent you a letter just after you wrote stating I wd. send a box t. Dingelstedt & co. Did so — recd reply. I suppose you got it? Have the germans now the carnivr. pl. mania? A Mr. I. Kruttschmitt, "consul de la Confed. germ. du Nord" — Nouvelle Orleans", has just written me — he is going into Lou. flora & begs t. exchange some seed & notes. I dont think he'll get much out of me.

Pardon all this stuff.

Pinus glabra

apr. 20 1876

45 IIA

13 I forgot to say, that the piece of wood enclosed is from a deep gash in the tree, made by the sacrilegious hand of some African, wanting "light-wood"! Non tetigit (the villain!) — what does he not touch that he does not — ornament? — Oh no!! — Soil, blacken, utterly disfigure, mutilate & kill ?! But silence, he is our Master for the present, & his black hoof has been placed on our necks! So let me go softly! By the bye I think I must try & get for you the negro Whipper's speech just made in the Legislature against the Yankee Gov. Chamberlain. He gashes the poor governor, as his mate did my beautiful *glabra*; & who knows? — perhaps ~~[illegible]~~ he too will make "*light* wood" & some fire! There's no telling; — I myself do not

45 II b

apprehend trouble — but of course there is a risk of it. — But let me not be too hard on these poor deluded folks, — my friends & neighbours, — whose many good qualities I've known from boyhood, & whose kindness & goodwill I frequently experience. It was only the other day when I was away from home, that my house took fire, & soon the dry shed was blazing. It would have burned down in a short time had it not been for the presence of mind of an old servant of mine, & the crowds of my negro patients &c who came in howling, — yelling, — screaming, and leaping like demons (or will you say monkeys?) — upon the shed, — some climbing the pillars — and all working as if mad! They saved my house & almost all I possess! Am I not an ungrateful wretch to say aught against such friends, & who besides give me my bread?

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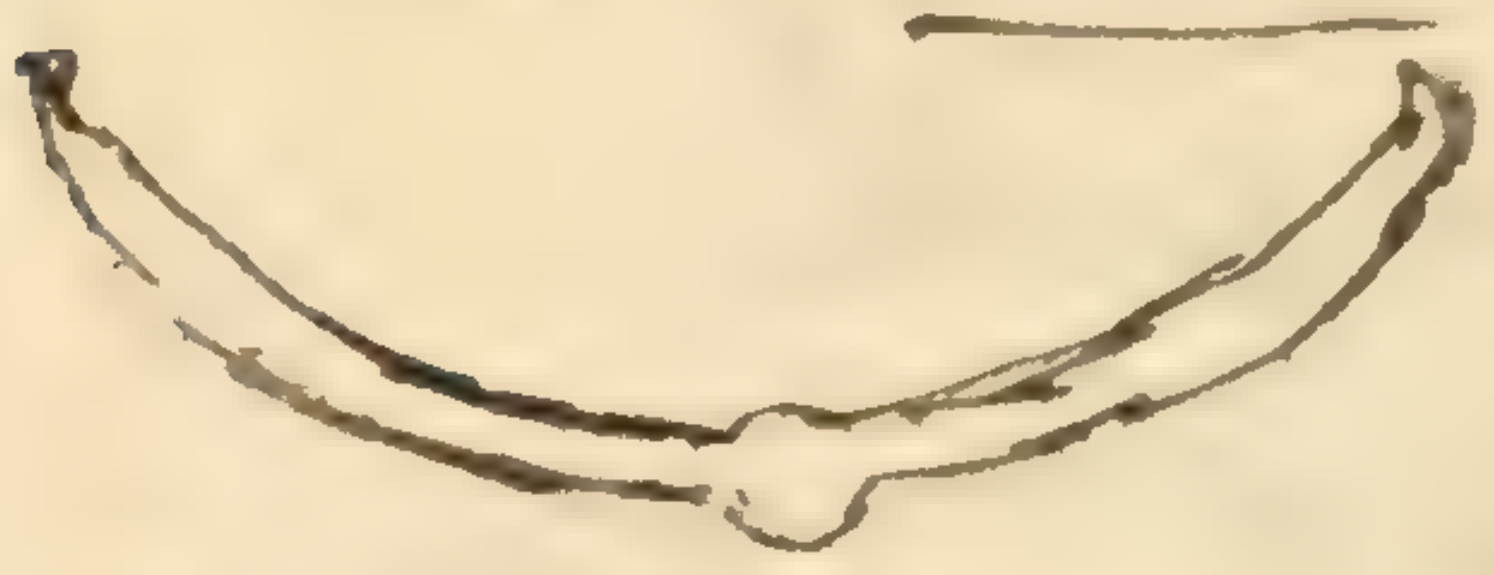
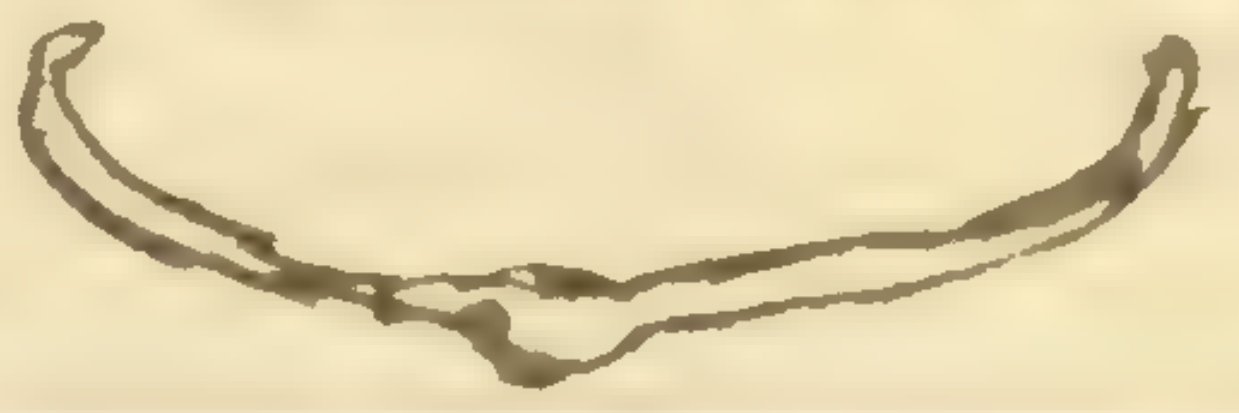
BOTANICAL
GARDEN

Rec May 13th — Bluffton
S C
8. May 1876.

My Dear Doctor —

I cant tell you how much I thank you for the photograph you were so good as to send me. I had long wished to have it, and I greatly appreciate your good will in sending it. I have placed it among my few Penates along side of Mr ~~[illegible]~~ Canby & some of my kinsfolk. Many thanks! — You ask me to send mine & I now do so. Its painful gravity & general "lugubriousness" of Expression you must be sure to ~~attribute~~ to the general letting

Form & description attending my autumn Catesb (all fall) when it was taken!!! ~~[illegible]~~. In all of the ~~trees of~~ Laurifolia sp: I examined when I wrote — (I mean when in the bud) the condition was  identical with your 3, figures in letter. I had in my figure as you suppose turned the upper side downward. This I suspect is its usual state in bud; but evidently many young leaves just after escaping from the nascent state — an inch or two lower down from the tip of the branchlet, — curve backward somewhat in imitation of Virens or pumila. And this I have observed frequently to day. ~~It had to be seen now~~ like the glabrous ones sent you in 74 & which you enclosed to me. I suppose they vary like the rest but I believe the usual condition is as above in bud 

Yes! these things do interest me & I much regret that I did not attend to it this spring — It was just at that time when oaks & hickories & other budding trees suffered from the severe cold. I ~~have~~ shall put yr letter carefully up for next spring, at which time if I am in the field I shall carefully examine & report.

I will not write any more to night save to thank you again, as I must then go off to see an obstet. case which I got through with two or three hours ago!

Vy truly & respy

J. Hoy

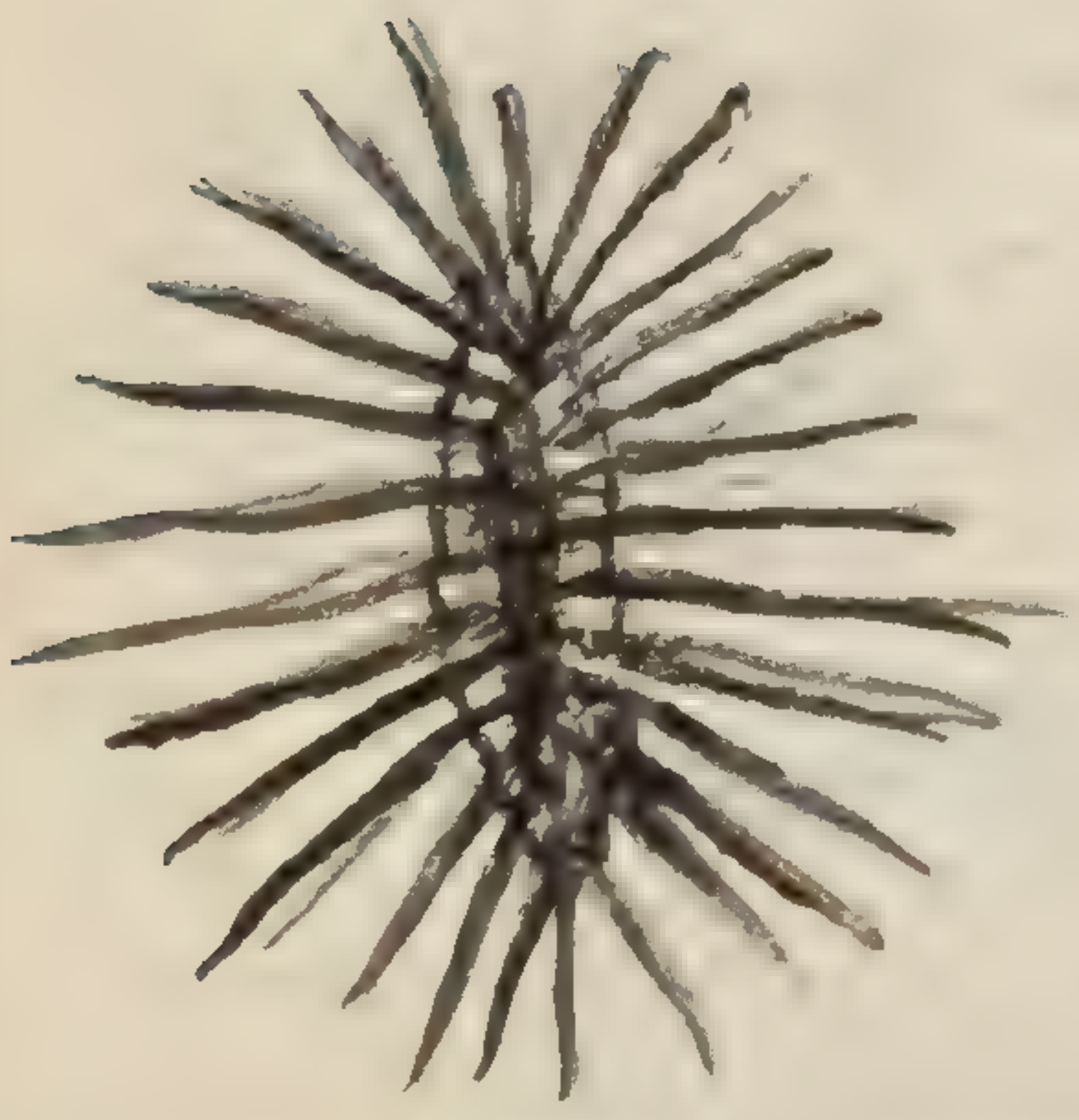
P.S. —

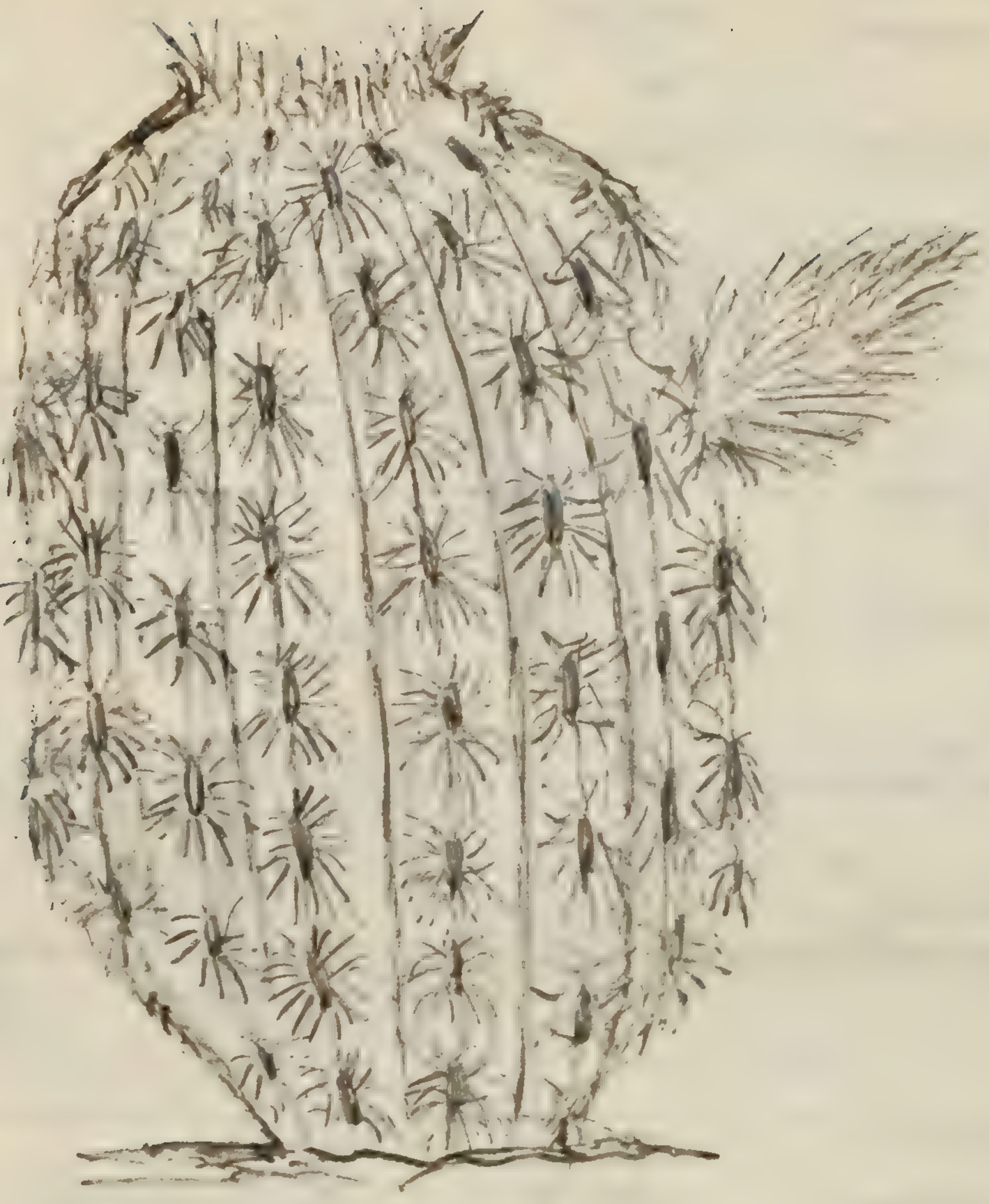
No! I suppose the Ex-consul only sent me his old card so that I might (conveniently) spell his name for certainly I never could have made it out from his signature.

What think you I've been reading — you could never guess in one hundred yrs altho' its a German book — what else but ~~a~~ "My ministerial life by Rev. Dr. Büchsel of Berlin" - wh. so greatly delighted my Father I remember some yrs ago. A book of great simplicity, full of "sweetness & light", & absolutely free from the slightest taint of cant & humbug & hypocrisy. I don't wonder at my Father's liking it — I will write when I have anything to say or send.

Excuse second sheet.

Recd May 26th
Ans same day





My Dear Sir,

At the risk of troubling you again too quickly I venture to send the above sketch drawn from a plant sent me some two months ago from Meridian, Bosque Co Texas by

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same old friend & next
door neighbours of ours —
who left us to seek a
new home a year or two
ago. The plant is growing
well & I think will
bloom after a while;
it is a little larger
& more robust I think
than as represented
of my rude sketch.
Last week they sent
me the prettiest flower
of the same in their
charming little bouquet
of Prairie nurslings —
the former of which I
enclose. I have looked
over yr book (in a
hurry) but can't
say I looked it &c —

47a

-actly. It is not
Cæspitosus is it, or
pectinatus? - There
is no central spine,
- ribs or ridges six-
teen. I think my
friend said it grows
on "the rocks".

Brn. S.A. Vy truly & respy
21. May '76
F. M. H.

P.S.
Read yr. p. card
a day or two ago -
glad you saw the Gesneri
of Linnaea. I may say
the drought of last year
(wh. almost ruined us) still
continues, & the young corn is parching
up. It is already starvation
I fear for some blacks, but should we
get no rain the prospect
for the whole low country will
be terrible indeed. Intensely hot.

I doubt if the Cactus is figured in Y. Book

The pine specimen sent you is of course P. Taeda. I have been looking at our Hickory trees ~~[illegible]~~ and just here I believe we have only Tomentosa (perhaps var maxima), glabra (porcina) and amara. The latter a large smooth barked tree with compressed very small nuts. The first chance I have will examine it, on acct of the nut it may turn out to be aquatica.

JHM

Will write better when I get good pen & ink from City!! So please excuse!

MISSOURI B
GEORGE ENGELMANN PAPERS

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MISSOURI BOTANICAL GARDEN

Rec Jun 15
a — 13

46

Bluffton SC
1. June 1876

To Dr G. Engelmann —

My dear Dr. I look over yr letter & answer yr queries as well as I can! Yes! I sent you Phellos from the New River swamps long ago, — very abundant there, not just about me. I have looked at the broad leaved Laurifolia enclosed in yr letter. On young trees & on the lower shaded branches of old trees, it is not at all uncommon I think to see such leaves, — but usually ours are longer (?) and narrower.

You say the Laurifolia business is "not yet clear" to you. Certainly, I shd not call that oak a true Evergreen! I shd say it

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was a half Evergreen; – if there be such a thing! Elliott says "the old trees shed their leaves freely towards the close of winter, & are nearly naked in March. The young plants generally retain their foliage." This is a true description, but it seems to me that the leaves are dropping the whole winter, some trees losing their foliage quickly and others retaining it longer. Pretty much the same case with Aquatica about here; – if I am not much mistaken Aquatica sheds its ~~their~~ leaves more quickly, but as in the case with Laurifolia the young trees retain their foliage.

The lobed leaves of Laurifolia shoots seldom or never resemble those of Aquatica. The lanceolate form is always indicated in the

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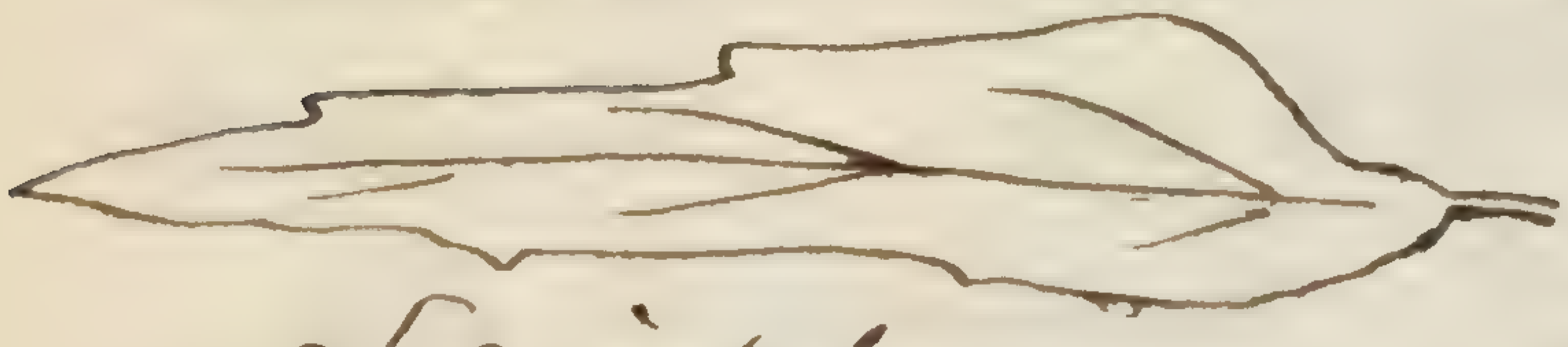
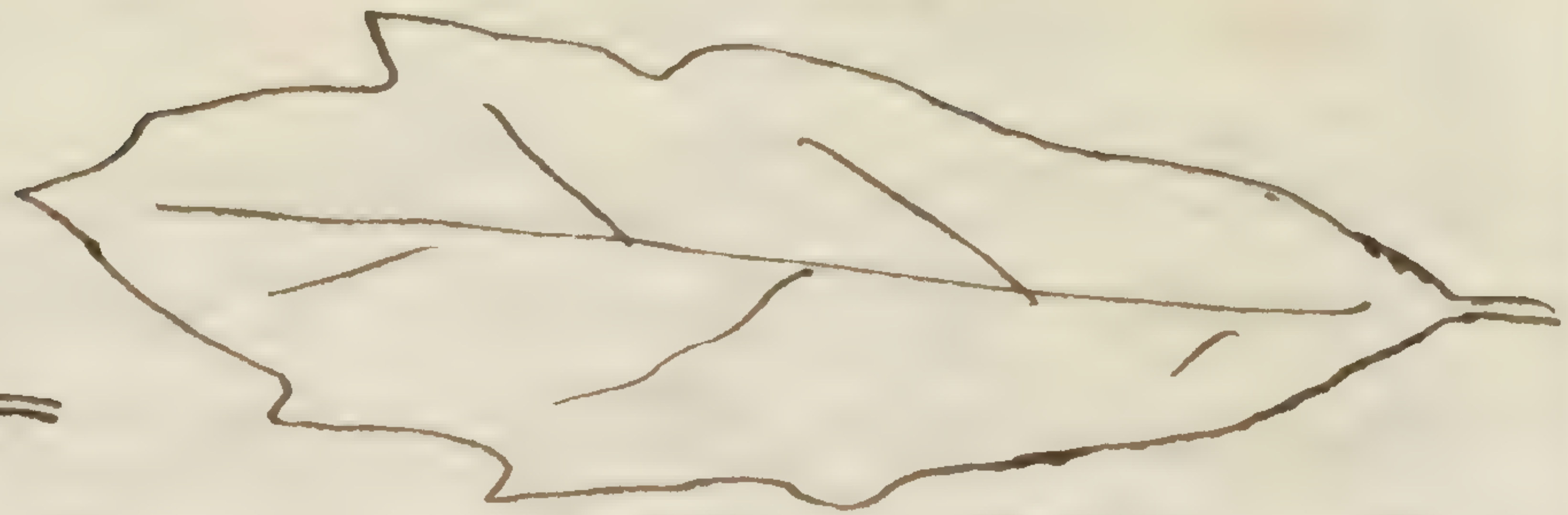
former, — the spear-shaped in the latter.


Laurifol.


aquat.

I do not know where to put the "Sass". curious Hybrid sent you last fall! To no other trees however can I refer it than to Cinerea & falcata.

As for the other — Sinuata (?) it seems to me (as I said long ago) that Aquatica & Catesbaei were the responsible parties. Did I not? And I think so now — especially Aquatica! Cinerea — possibly, but I doubt! I have within a few days past collected some young branchlets sprouting from the trunk, about 15 feet from the ground, — where a limb had been cut last year. These I send you, and I think both the older as well as the younger leaves will immediately recall *Aquatica*. What say you? On the other hand the "golden scurf" - which to-day I find on the leaves higher up - recalls of course Catesbaei. I don't know anything about *heterophylla*, can't say I understand what tree you refer to. Yes! yr letters have terrible "hooks" in them - barbed & what not! for instance the vernation of Catesbaei! Yes! I be-*lieve* the inflexed form of the young leaves to be the usual condition. At least such is my recollection: I found one such bud on a young tree 4-5 feet high wh. corresponds with yr sketch. I send this with the other things. I ought to feel ashamed about that. You "have never observed the same in the *red oaks*"!

Very truly & respectfully yrs

J. H. Mellichampe

P.S.

The Cactus from Tex. bloomed to day! It was wonderfully beautiful. Just as you describe it. Before getting yr letter I had satisfied myself by more careful examination that it must be *Caespitosus* and no other. Drought still - but only just here - what is to become of us. A bad set we are - people say!

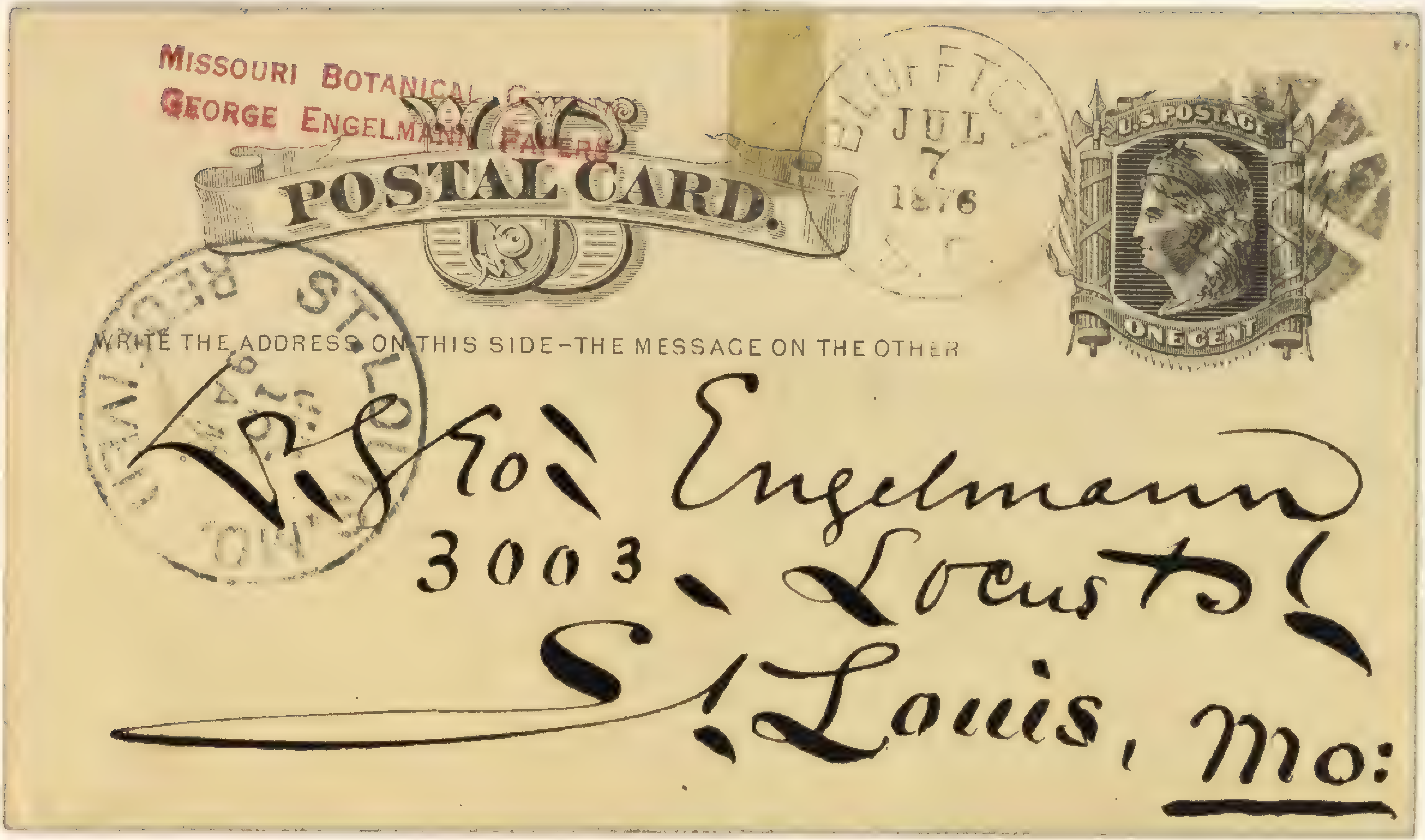
Recd July 10th

Ans Aug 13th

49

Bn S.C. 6 July '76. My Dr E. I have only time to thank you for the Oaks — (not "Hoax" as a Cockney friend of mine persists in saying!!) Went over it two or three times & like it much — thanks! Will send a letter. What think you of the Polymorphous sps I now send — all growing together in a small clump in very sandy land near a high bluff? Fine sps of Virens, Catesb, laurifolia &c all around them. In spite of the diverse forms of the leaves I am tempted to believe they are all one, with perhaps one or two exceptions. Yes! but wh. is the one? Is it Catesbæi, or aquatica, — or rather are they not all of them variations (because young) of Sinuata & therefore hybrids! Most of the sps from different trees, wh. are generally 3–4 ft. high & none over 8–10 ft.: one of these last looks like Catesbæi, and another like aquatica. A large leaf of a Catesb. "grub" also enclosed. Yes! I was delighted with the Hoaks. Very truly J.H.M.

Perhaps, after all only aquatica Swamps in very "sandy" land.



POSTAL CARD.

U.S. POSTAGE
ONE CENT

BLUFFTON
JUL
7
1876

ST. LOUIS MO.
RECEIVED

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

Dr Geo: Engelmann
3003 Locust St
St Louis, Mo:

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Bluffton
Rec. Ans Oct 5
7 Sept 76 —

My Dear Doctor —

I send you only a few words to thank you for thinking of me in such Excellent Company too! — away up in the mountains.

It was a very great surprise to me when I got your card.

Some time back in reference to your Expressed wish I did one day attempt some running comments on the Oaks"

never visited our mountains — never been higher than

P.S. My autumnal catarrh has come almost to the day — but is well kept under by Quin & a little of a mixt — with the former I am pretty well saturated & I feel no uneasiness. A London Dr. uses Tris Nit Bis. mixt as a with success & Hydrochl & Gi acid snuff wonderful he says.

but my wife was taken ill & for a long time I had so much on my hands - nursing - and feeling so much anxiety, that I did not have the spirit or inclination to finish my letter. But misfortunes you know never come single.

When she got better I had to send her out to Athens Ga. to live with her daughter (or rather niece) and she had not been gone a week before

50a

my ~~[illegible]~~ daughter who
was to keep house for
me was taken down
with inflam Rheum
& down she has been
ever since, unable
to move, & suffering
the usual atrocious
pains of that disease.
Today I think
Colchicum &c &c is
doing its work & she
is certainly better. ——
Did you ever hear
the low country niggers
proverb or saying —
but it is somewhat
applicable to myself?

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50B

I will quote it and I may send it on to Archbishop Richard Chenevix Trench to add to his delightful book on Proverbs — viz — "Alligator no know wh' 'e call trubble till de mash kitch fire all roun' 'em." — which being interpreted is to say — Alligator dont what he calls trouble till the marsh has caught fire all around him! Around this alligator has the marsh caught fire in divers ways — when it has burnt out! and my "Swinger" skin is healing, I'll try to write you again — I am very

Very truly yours

P.S. There is an uneasy feeling in this state — some people apprehend trouble this fall at the Polls — hope well tide it over.

I have never visited our mountains — never been higher than the mid-country!

Rec 31 Oct

ans 3

BNSC 26 Oc '76. 5t My dr E.

Getting some printing of Ecat? from an old Garden— wh seemed vy beautiful I thought I'd send it on tho' doubtless it is not new to you. As for the other things— ancient friends— (Enemies?) I just throw them in for you to look at & then pitch them away as you have enough! ~~It~~ Yes! things are a little "smoothe" — my dr— well — but my wife not yet returned from up-Penn Ga— nursing — nursing & well nigh broken down. Things still out of joint politically & in other ways. Hope to finish my letter to you one of these days. Sent for Huxley's address & just finished it — "What is Truth said jesting Pilate"!!! It disappoints me — a big fabric on a slim & tottering (?) foundation & I don't like his covert sneers at what some wise & many good people believe to contain the truth — but what is Truth said jesting Pilate.

Many thanks for that letter. J. J. Hm

710 S. Ger. town

POSTAL CARD.

U.S. POSTAGE
ONE CENT

BLUFFTON
OCT
1876

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER.

GEORGE ENGELMANN PAPERS
MISS

ST. LOUIS, MO.
RECEIVED
OCT
30
6 P.M.

Geo Engelmann
3003 Locust St
St Louis, Mo:

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MISSOURI BOTANICAL GARDEN

Rec Nov 18th
Ans — 20

Bluffton S.C.
13 Nov 1876

53

Dear Dr Engelmann

I am in such a riotous state of exhilaration both of body & mind on account of the good news as to the Election of Wade Hampton that I am only too glad of the pretence of answering yr letter so as to let off my superfluous steam — for it is but the simple truth that we are all of us here — pauvres diables that we are in this little outer rim of creation — Ecstatically — foolishly, ~~most~~ most ridiculously happy. I swear to you as I watched the red glow of sun-set last nt. over the marshes & heard the well remembered roll of the marsh hens answering & re answering each other that I felt such a thrill & glow at the sound & the sight as I haven't felt since my boyish holydays when I hailed the approach of cold weather as the herald of all the delights to come. And all this due to the good news! We hardly yet know whether to believe it (too good to be true) as the official returns I believe have not all come in and if it proves ~~true~~ false why we will all commit hari-kari, thats all. Perhaps I'd

better go to work at once and
sharpen up that old carving
knife that wldn't cut
the ham recently so as
to be ready. We had a very
quiet election in spite of
the apprehensions of trouble —
some of the ladies flying to
the neighborhood of Sav— in the
face of yellow fever rather
than remain here. But this
was foolish. They made me
a Dem. manager of election
(first time in my life I
ever served in any public
capacity) and so from six
in the morning to six at nt.
I appeared to be Argus &
Rhadamanthus combined
— a-watchin' ~~the~~ 'de
'Publickins"! We did better
than we expected — by raking
the County we squeezed out
97 white votes to 352 black.
Only 6 darkeys voted
with us!!!!!

In the low country it seems impossible to overcome their distrust of us altho' in all other matters I think they trust us. But we hope the day will come yet when they will go with us. They are at present extremely sullen & seem to anticipate some great calamity to them (wh means that they are afraid to be placed in slavery). A negro came to me this morning expressing great fears of trouble on acct of the foolish speeches of some whites with whiskey in their foolish heads. I hardly anticipate it. There was some trouble in Chstn as you may have seen by the papers – my Father's old Parishioner Capt Walter (Walter's battery) was dangerously wounded & his son killed as they were quietly going to their place of business – it is said by black Policemen, they were unarmed. I trust now that for the whole country this election will be the commencement of peace goodwill & prosperity.

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MISSOURI
BOTANICAL
GARDEN

Ans Nov 18 1876

I know you will be good natured enou' my dr Dr. to pardon the other paper just written – even tho' you should be the most violent Repubn in the Country – because our fight is simply one against thieves & brigands & in that all good men or most good men are with us – So once again I pray you pardon what may even seem senti-mental – but it is not sentiment, [illegible] And now to yr queries! ——

I do not think that there is any Gonolobus here but G. hirsutus & that has spiny fruit. I do not think I have ever seen any fruit of a Gonolobus here wh was not spiny. Unless I am greatly mis-taken the flower sent Dr Gray came from the same vine the spiny fruit of

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which I now send in a pkge with this. ~~[illegible]~~ ~~[illegible]~~. I know of but three places ~~[illegible]~~ where there are Gonolobus vines & the flrs sent came from one of these or all of them. But a week or two ago having occasion to send Dr Gray something he asked of me I en-closed several sps of flrs of Gonolobus (before yr letter came) & these flrs came unless I am fearfully mistaken from the vine with spiny fruit — same vine whose fruit I now send. Grows only a few yards from my house. You can get some from him. Next Summer I will send sps of all — but I repeat it that

I think we have but the one here G. hirsutus. As regards the Ampelopsis yr query is answered by the spec. also sent. When the vines become old—es-pecially when climbing the highest pines of P. Ell. (for wh. they have a fondness) the legs or suckers become detached from the exfoliating bark & then the vine hangs loose for 20 or 30 feet like the loose flying cordage of a ships mast. On live oaks however I believe they stick the closer with age. I have not seen any tendrils like [illegible] the grape. On the youngest vines the disks are seen on the ends. [illegible]. I send spi from old & young vines. As for the queries about the oaks

with it any of
I will answer when I ex-amine the trees again. At the same time I will send good specimens: ——

In the pkge I send a sp of Q. Aquatica plucked in Summer from a tree growing in sandy soil. The lobed & young leaves are well shown & ~~those of~~ of the older ones wh. are fiddle shaped. Also sps of young growing leaves of Q Myrtifolia. sps of Crat. glandulosa. flrs & leaves &c & fungus, frequently found on them & occasionally ~~[illegible]~~ destroying the tree – young dried cone of P. Ell. 4 acorns of Hybrid Q. Cin. Catesb. & fungus? of Sabal. Adansonii — sometimes blackening whole leaves — look as if covered with soot. Will put all write about oaks (not much I can say) next week. I am curious to test yr knowledge of barks & wood — I enclose in pkge one wh. stumped me until I went in the wood & saw the tree wh. has been cut by a carpenter –

54

Rec Dec 2d
ans — 6th

MISSOURI
GEORGE ENGELMANN PAPERS

Bluffton So. Ca.
20 nov 1876.

My Dear Doctor E Let me warn you — this is an infliction

You indeed made me open my eyes at these two discrepant statements of mine as to Gonolobus, — but I don't care so very much now since you have placed me alongside of C. S, whom, although I once had a strong prejudice against him, I now really like and respect, in spite of his shifting and inconsistency during the present Campaign! I have been thinking about the discrepancy and can only account for it in this way. I repeat that I have not seen here (at least since my return after the ~~[illegible]~~ war, in '67) any other Gonolobus than the spiney fruited one — at least I have no recollection of having seen or collected any other, and I think I have a distinct remembrance of all the localities (three of them) from wh I obtained specimens — viz — one at "Bluffton", one at "Sandy Run", 1½ miles off, & the other on the "Oketee", some 8 miles off or thereabouts. I have seen one or two others in diff^t. places but dont think I ever examined them. Before the war however, in 1860 I think, I did find the open or opening follicle of a Gonolobus at "Pritchard's plantation" and brought it home with me. (To oblige a friend I was collecting some seed of native plants to be sent abroad for M. Decaisne but the war and the blockade prevented their being sent!) Now this was a good while ago it is true, but I do not have any impression left upon my mind that this follicle was spiny or roughened with tubercles — indeed rather the opposite, — but [illegible] I do not pretend ~~to be~~ at present to be sure about it either way. I conclude that when you directed my attention to these plants and understanding that the flowers were so markedly different that I too hastily — culpably so — stated that [illegible] "I had seen" (Heavens!)

54a

two kinds here, one with spiney the other with ribbed fruit. I suppose I must have been thinking of this dried & bursting follicle found at "Pritchard's" as the smooth F. species, & it is pos-sible my recollection of it was really and truly so vivid at that time that it was proper for me to express my-self as I did. The leaves of course had dropped & of course I had seen no flowers — only the brown — drying or dried follicle with the downy seed bursting from and surrounding it. I do also remember this, that the first time I saw the spiney follicle hanging from the vine, I was surprised at it as something different from what I had before seen. This is the only way I can account for it and if I pass Pritchard's shortly I shall have some object in hunting for the old vine of 1860. But I re-peat that since my return in '67 I have seen no other Gonolobus that I know of than the one with spines and perhaps I never did see any other even in 1860 — the brown & bursting follicle at Pritchard's having

perhaps deceived me. All of wh.
goes to prove that I wrote — to say
the least hastily — and — and —
am a humbug? (Well, Dr. Gray
wrote me a very kind note the other day
& said he wanted Gonolobus fruit. I
looked again at the Bluffton vine — but
no fruit, that I had sent you — next I
went to Sandy Run, 1½ miles off
& there found large & beautiful sps. —
but spiney (!) wh. I sent him.
(I send you one of these now but
smaller) There remains only the
Oketee, but that I need not visit
for I have taken the same spiney
follicles from it twice! — Where
then did yr flowers come from —
other than from a ~~Sto~~ spiney
fruited Gonolobus? We will see
next summer! I stated to Dr.
Gray (tho' he asked no questions) #
just what I did to you, that all
the vines I had seen here bore
spiney fruit & so far as I knew
all were G. hirsutus. Can't
you get from him some of the fl.
sps I sent him before you
wrote — I sent him four
or five sps. — (Leaf enclosed was
picked up at Sandy Run under Gonolobus
vines — none on the ~~the~~ vines.)

MISSOURI
GEORGE ENGELMANN

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GARDEN

Recd Dec 9th
ans Dec 20

2. Dec '76

55

My Dear Doctor,

I recd yours of the 25th last mail, — I have been very anxious to help you in the matter of Q. Mickxii but have had no work to do lately where it is found, & besides am kept close at hand by an expected "case" where the woman has a knack of well nigh flooding to death with morbid adhesion of placenta & hour-glass contraction — so thats the reason why!

As soon as somebody sends for me (keep no horse don't pay!) that way, be assured I'll answer yr queries faithfully. The specimens sent you of Q. Michauxii all came from a tree growing near New River, — (fresh water), I sent you also acorns from the same tree wh is not over 25 — 30 feet, growing right on the road-side, its growth in no way impeded & not at all shaded by other trees. I did not examine the bark with any care, but, unless I am much mistaken it is very much — almost exactly like that of the white oak — & a dirty ashen colour & I think is scaly or shreddy, — if there be such a word!

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I was disposed to think that some other trees wh I saw several miles off in the edge of a swamp containing magnolias dogwood - beeches &c were those of Q. Prinus, because the leaves were longer & thinner & I believe less downy or tomentose underneath, & I think I ~~ss~~ sent you a leaf or (leaves) from such a tree and the only acorn I found, wh I remember was somewhat peculiar in shape . If the leaf you refer to is reddish or at least autumn tinged it is from this tree. The bark of this or these trees (for there are several) is the same I think as the New River tree but less pale - more of an olive color if I remember aright - but then I am as to the scaly condition. The difference, referred to (if there be a difference!) may be due only to the fact that the one tree is entirely unshaded & exposed to wind & all the influences of sun & rain - the others in a deeply shaded dark swamp. Of course there is in the latter a larger & more tender foliage. No! I suspect we have only one of these oaks here - that one is Q. michauxii. This is all I can say until I see & touch them all - s/ps ting. by

Yours I will send if I can bark - leaves, cups & all.

Dr. [illegible]

Dec 2 Dec 9th 55a

P.S. Perhaps you'd better send me "an acorn of no 3" to compare. I'll send it back to you. I don't think I have ever seen any tree with oblique & obtusely-sinuate dentate leaves such as you say you rec'd from the Rev. Dr. Curtis's.

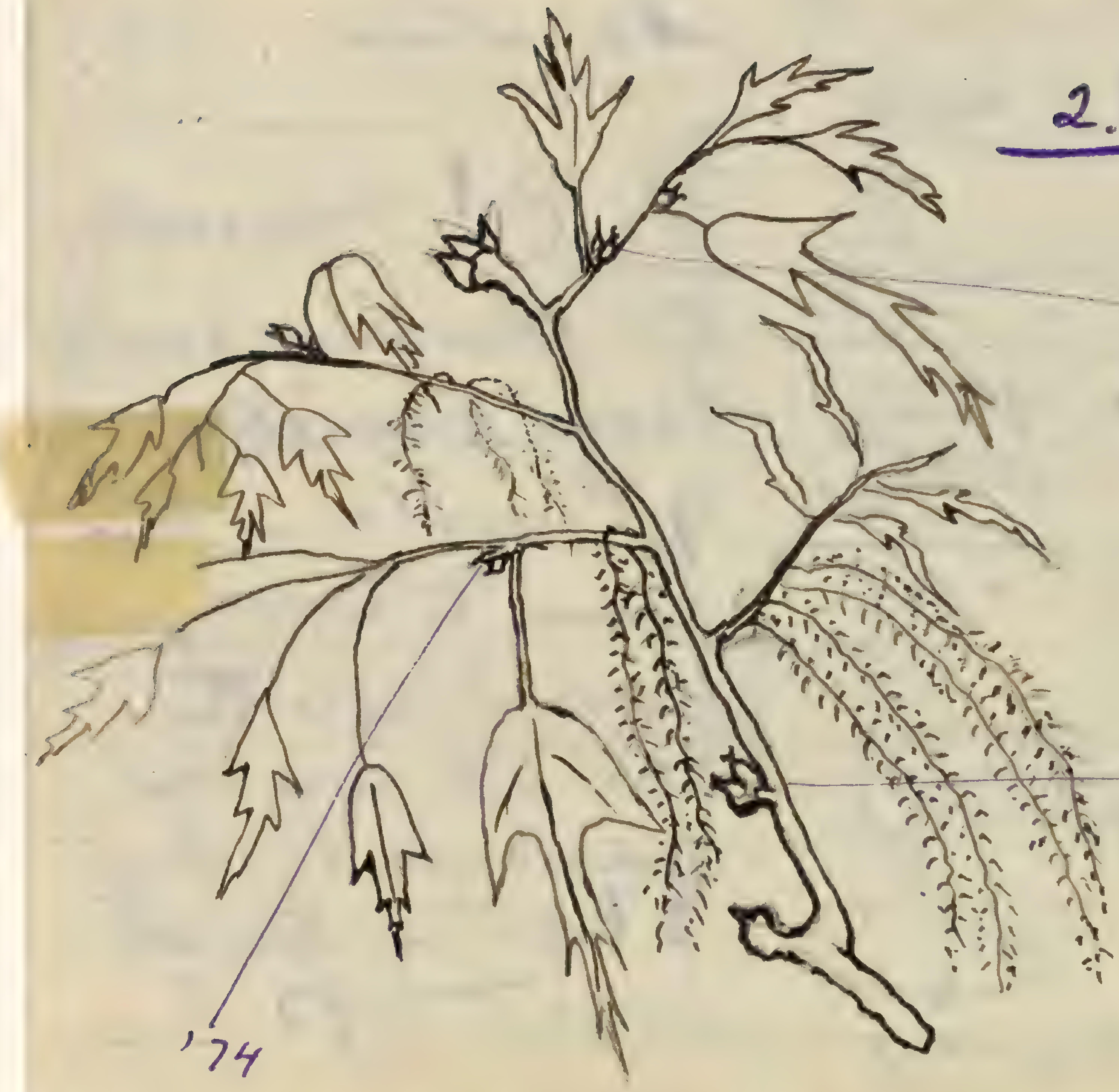
Perhaps you to day rec'd the s/ps of Hybrid(?) oak wh. I last found & wh. for a little space of time excited in me quite a pleasant furor! Evidently, from closer examination it seems only another form of Q. Cinereo-Catesbaei! But I, mildly suggest that laurifolia & Catesbaei are the parents, as I maintained (& still do - doggedly!) that aquatica & Catesbaei were those of the other hybrid. Possibly laurifolia is the parent of that too & not aquatica! Next year may however reveal its true parentage with its unmarred & normal condition of foliage.

News reaches us slowly in this little remote corner, while you doubtless get telegrams daily from Columbia. Thus we go through all the varying alternations of hope, despair, exultation, rage — suspense, despondency, rank treason — rebellion! A friend has just stormed in with Friday's paper wh tells us the good news that our friends had camped in the State House with Bill Wallace my old classmate as Speaker (Genl. Wm W). Bill is an ice-berg in size & as cool as one not to be scared by the myrmidons he has before so often met in Va — but the situation is grave & we can't say what is before us. If we can only keep our heads level (as we have been doing) we may yet slap the purple cheek of that would be Cæsar & spit upon vultus instantis tyranni — God help us!

weather bitter cold. [illegible]

55IIa

2. Falcata



'74

'73

'74

Package sent
to Dr. G 16 ap.
contains

Pumila – diff^t
varieties, marked

II. April 16^th imbricaria,
1, are laurifolia
2, are cinerea

Virens – pine barren
dwarf ✓✓ 1 to 2½ (feet)

---

2. Virens, large tree;
✓ 4–6 mostly 5 stamens

Alba. ⊖

Cinerea III.

Aquatica. 11.

P. P! Especially the flowering, smooth leaved ~~A smaller~~ var. of Pumila — this seems to have full flowered & is the one wh. was so backward when I left — the rest burnt up! —

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Missouri Botanical Garden

55 II/x

2.
●● Falcata.
●●● Catesbaei.
I. "Sinuata" ?
II. aquatica.
III. Cinerea.
O. michxii. ?
X. Laurifolia. trus
√. Virens.
+. arenaria. ? (2. Var)
oo. Obtusiloba.
□. Phellos. ?

Hopea. Tinct
Styrax Pulverulentum ?
Collinsonia Punctata
Ol. americana
P. Ell
Y. al[illegible]

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55 III &

P.S. The oak wrapped in the same paper with the grapes & moss, is Laurifolia.

P.S. The oak outside of package both above & below is, Catesbaei!

older in THE CENTRAL RAIL ROAD

reby assent to the union and consolidation

MACON AND WESTERN RAIL ROA

h in an Act, entitled “ An Act to authorize

acon and Western Rail Road Company wi

eorgia, under the name and Charter of the

” approved August 4th, 1872.

here be called a Stock Holders meeting for

I do hereby authorize and empower

15 cotton seed sent some time back to Prof Todaro Palermo, Ity Sicily

Bluffton S. C., 21 Dec '76 —

Dr. Engelmann —

Rec Dec 26
ans Dec 27

My Dear Doctor —

Two days ago having been sent for New-River-ward, I was enabled to satisfy myself thoroughly as to the bark of Q. michauxii as well as that of the other trees on the edge of "Middleton Swamp", which last are certainly very diff— both as to leaf & acorn, and without doubt are Q. Prinus — as indeed I must have written you long ago!

The tree of Q. michauxii grows on the roadside, near the gate of "Garvey" rice-plantation, and not far from New River bridge. It is a small tree & not shaded or impeded by others, — and it bears fruit abundantly! but I cld find but one acorn cup of this year. —

The bark of this tree is very
much like that of the White oak
– Q alba both as to colour and
friability, – being of a pale
ashen gray – here & there splotched
with darker patches, & breaking
& flaking off at the slightest
touch of the hatchet. I call this
No 1 & with this letter I send
sp^{s} of the bark & leaves, – one
cup of this year, & several others – black
& discoloured of last year, – all of them
marked 1. In the same parcel
you will find bark, leaves, acorn & fragments (but good fragments) of what
I take to be Q. prinus, growing
on the edge of Middleton Swamp on
the road side of "Gascoignes' Bluff"
plantn! I regret that I did not
get a perfect acorn of this tree,
but from the fragments you cannot fail to see that the fruit
is entirely diff^{t} from that of Q.
Michauxii, which last is very much
like that of Q alba. But I sent
you perfect acorns of this same
Q. Michauxii long ago, did I not?
The leaves of this "Middleton Swamp"
tree (Q prinus) are very much
larger & thinner & softer than

those of *Q. Michauxii*, but the bark is *Exactly the same*, — perhaps still paler, and flaking off & crumbling like the other at the slightest touch of the hatchet. I will say that there was no appreciable difference in the bark, but there is both in the leaf & the acorn. But you will judge for yourself. All of the sps from this tree of "*Middleton swamp*" are marked **II**. ——

I suppose the acorns had been crushed by hogs — or the "Varmints" of the woods! In the parcel you will also find sp of leaf of *P. australis* (?) with four "straws" as our country people say. This is unusual — don't think I ever saw it before. I found it on *my hearth rug* (!) — the only one there — most probably brought in with the "*light wood*" for kindling. Please also look at the sps of *Q. laurifolia* from a tree just cut. I told you that I had not seen leaves of this tree resembling to any extent *Q. aquatica* — but these certainly remind one of that tree!

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This is certainly an unusual condition. The stiff & slightly lobed leaves on very vigorous branches are from the topmost portions of the tree, — the others are from lower down. The one with a single acorn wrapped in paper, was found under another tree at some distance. There is however not the slightest doubt in my mind, but that *laurifolia* & *aquatica* are entirely different trees. *Q. laurifolia* is a large & handsome tree with *symmetrical* & beautifully disposed limbs & a *massed* foliage, — making indeed our most ornamental oak in the low country. *Q. aquatica* on the other hand is a smaller tree & with more irregular & crooked branches, with a *sparser foliage*, so much so, that *you can look through the leaves*! An ugly tree! Let not the name mislead anyone. It is indeed found most abundantly on the edges of "galls" & swamps &c, but it is by no means an uncommon tree in sandy soil, — *where indeed only* I have seen the largest & best sps — growing right alongside of *Q. laurifolia* & presenting quite a contrast to that beautiful tree.

Rec Dec 26 1876 ⑤ 56b

I have frequently seen young trees of *Q. aquatica* & *laurifolia* growing side by side in sandy soil, — their branches almost locked — in height say 10 feet, yet both trees preserving all of their characteristics. They much resemble each other in *bark* — in acorns, & the consistence of the leaf, but not in size — in the disposition of the foliage & in ~~symmetry~~. They certainly however may be said to *run together* and we may add *Q. phellos*, — *those three*! Perhaps when you look at the leaves sent of *Q. laurifolia* you may be disposed to alter somewhat yr description of the leaves of *that tree* & *aquatica*, but, I expect it is good eno' & true eno' to hold. — I have again read over the whole of your "oaks" — or I shd say all that refers to our trees but I find now that I have very little to say, although I did write you a part of a letter on the subject.

So far as our "low-country" oaks are concerned I do not feel so sure as to that old & vulgar distinction between white oaks & black-oaks. Certainly, our *Q. virens* is an exception, for its back is nothing like that of the so-called white oaks, being black — or dark gray & as deeply channeled — cracked & furrowed as the roughest st. of Catesbaei to be found! But then Q. Nigra is a tree by itself — sui generis! diff.t from all other oaks. I had intended also to allude to the bark of both laurifolia & aquatica — as being, in comparison with some of the black oaks & like Catesbaei &c, so much smoother — but then their greater smoothness amounts to nothing, as they do not flake off like Prinus & alba & Michauxii — so I will not further allude to it. I further remark that our sandy or barren soils seem to act in dwarfing as the mountain region in Cal. does.

I don't know anything about the flowering time of that last hybrid — if hybrid it be, — will tell you in the spring. I note what you say! Yes! it is a pleasure — to me at least — to turn from the turmoil of Politics & the villanies of bad men to other pursuits wh. are quite sufficient to heal, ~~&~~ to comfort, to tranquilize! As the old hymn says

— "Where every prospect pleases,
But only Man is vile"!!!

I've a great mind to turn into a ~~[illegible]~~ hermit of the woods & cover myself with the beech leaves, & feed upon the mast, while all this devilry in Columbia is going on. What say you? Why, when I emerge out of those shadows "qua pinus ingens albaque populus umbram hospitalem consociare amant ramis" — I might even teach you!

Rec Dec 26 1876

Yes! Even teach L. S. E_ something about oaks & oak hybrids, for I shall let the mystery of the wood penetrate me! You will laugh at my ~~airing~~ of old Quintus F. (it flashed upon me as a vision ~~of~~ from schoolboy days!) but I dare say it is all twisted

56 II v

& wrong, & I dont think I cld
read him if I were to try!
And now a merry
Xmas to you my Dear
[illegible]!! most truly JHy

Didnt I allude to the mid-
wifery case I was anxious about
awaiting on? Strange predisposition
in this Yankee woman — idiosyncrasy
whatever you call it. For the
third time morbid adhesion of placenta
& frightful flooding during the extraction
— doing well.